

MS05: New trends in data processing Organizers: Mariantonia Cotronei, Alessandra Jannelli and Damiana Lazzaro***Part I - Monday, August 28th***

Time	Speaker	Name of the talk
15:45-16:10	Mattias Holschneider	Cell contour dynamics and the kymograph picture
16:10-16:35	Roberto Cavassi	Problems related to data analysis in non-Euclidean spaces: iterative filtering for signals defined on the sphere
16:35-17:00	Francesco Dell'Accio	Global interpolation on the sphere through multinode Shepard method
17:00-17:25	Paolo Zuzolo	GNN-based construction of Laplace-Beltrami Operator basis for intrinsic 3D shape representation
17:25-17:50	Alessandro Lanza	Quaternary Image Decomposition with Cross-correlation-based Multi-parameter Selection

Part II - Tuesday, August 29th

Time	Speaker	Name of the talk
10:45-11:10	Tomas Sauer	Wavelets for Compression and Analysis of Large 3d Volumes
11:10-11:35	Giuseppe Antonio Recupero	Non-local and non-linear versions of the osmosis PDE model: properties and applications on images and graphs
11:35-12:00	Sara Remogna	Curve network interpolation by quadratic B-spline surfaces with multiple knots and free parameters
12:00-12:25	Milvia Rossini	On polyharmonic B-splines
12:25-12:50	Massimo Villari	Big Data and AI in Natural Disaster Management: The TEMA EU-Project Experience
12:50-13:15	Francesca Pitolli	Identification of Different Brain States from Brain Activity Maps